

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/005014

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C10M105/04, 177/00, C10G2/00, 45/64, 65/04, 67/04//C10N20:00,
30:02, 60:00, 70:00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C10M105/04, 177/00, C10N20:00, 30:02, 60:00, 70:00,
C10G2/00, 45/58-45/70, 65/02-65/12, 67/02-67/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2003-517495 A (Exxon Research & Engineering Co.), 27 May, 2003 (27.05.03), & DE 69902926 T2 & US 6008164 A	1-4 5-9
X	JP 2002-524605 A (Exxon Research & Engineering Co.), 06 August, 2002 (06.08.02), & AU 9956901 A & EP 1114124 A1 & NO 200100999 A & US 6420618 B1	1-4 5-9

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

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"&" document member of the same patent family

Date of the actual completion of the international search

10 June, 2005 (10.06.05)

Date of mailing of the international search report

28 June, 2005 (28.06.05)

Name and mailing address of the ISA/
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INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2002-524610 A (Exxon Research & Engineering Co.), 06 August, 2002 (06.08.02), & AU 9956939 A & BR 9913396 A & EP 1114131 A2 & KR 2001099636 A & NO 200101124 A & US 6475960 B1 & WO 00/14187 A1	1-4 5-9
X	JP 2002-524611 A (Exxon Research & Engineering Co.), 06 August, 2002 (06.08.02), & AU 9956902 A & BR 9913410 A & EP 1114132 A2 & KR 2001089181 A & NO 200101123 A & US 6165949 A & US 2002/0086803 A1 & WO 00/14188 A2	1-4 5-9
X	JP 2002-538232 A (Exxon Research & Engineering Co.), 12 November, 2002 (12.11.02), & AU 9956808 A & BR 9913583 A & EP 1144551 A2 & KR 2001089249 A & NO 200101245 A & US 6332974 B1 & WO 00/15736 A2	1-4 5-9
Y	JP 10-510565 A (Mobil Oil Corp.), 13 October, 1998 (13.10.98), & AU 9644663 A & EP 796304 A1 & KR 98700396 A & US 5643440 A & WO 96/17902 A1	5-9
Y	WO 02/070627 A2 (SHELL INTERNATIONALE RESEARCH MAATSHAPPIJ B.V.), 12 September, 2002 (12.09.02), & AU 2002247753 A & BR 200207888 A & EP 1366134 A2 & JP 2005-506396 A & MX 2003007977 A & NO 200303906 A & US 2004/0079678 A1	5-9
Y	WO 02/070629 A1 (SHELL INTERNATIONALE RESEARCH MAATSHAPPIJ B.V.), 12 September, 2002 (12.09.02), & AU 2002256645 A & BR 200207891 A & EP 1366135 A1 & JP 2004-528426 A & MX 2003007991 A & NO 200303903 A & US 2004/0045868 A1	5-9